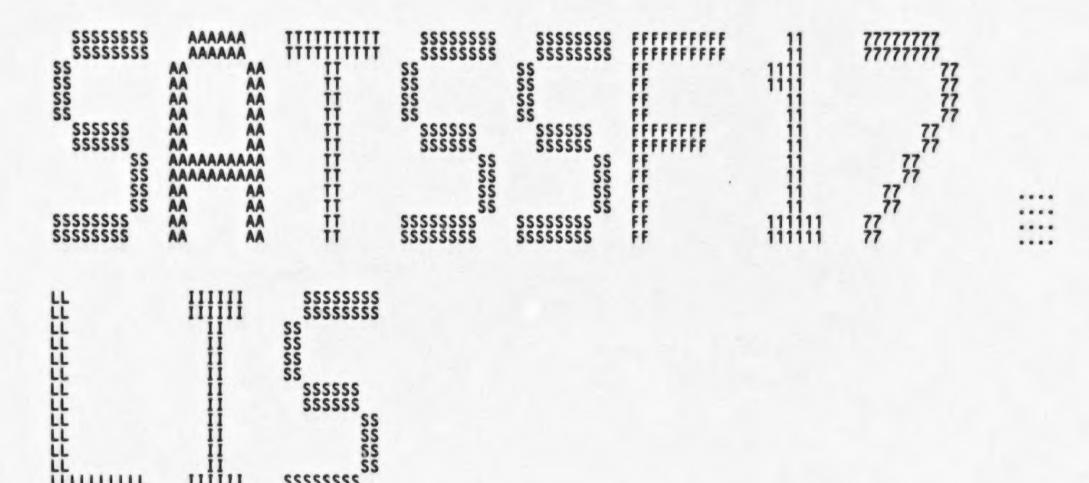
UUU	UUU	EEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PP
UUU	UUU	EEEEEEEEEEEEE	TTTTTTTTTTTTTTT	PPPPPPPPPP	
UUU	UUU	EEE	III	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE EEE EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	ŤŤŤ	PPP	PPP
UUU	UUU	EEEEEEEEEE	ŤŤŤ	PPPPPPPPPP	
UUU	UUU	EEEEEEEEEE	ŤŤŤ	PPPPPPPPPP	
UUU	ŬŬŬ	EEEEEEEEEEE	ŤŤ	PPPPPPPPPP	
UUU	ŬŬŬ	EEE	ŤŤ	PPP	
ŬŬŬ	ŬŬŬ	EEE	ŤŤŤ	PPP	
ÜÜÜ	ÜÜÜ	ĒĒĒ	iii	PPP	
UUU	UUU	ĒĒĒ	ttt	PPP	
UUU	UUU	ĒĒĒ	tit	PPP	
UUU	UUU	EEE	tit		
		EEEEEEEEEEEE		PPP	
UUUUUUU		EEEEEEEEEEEEE	III	PPP	
UUUUUUU		EEEEEEEEEEEEE	III	PPP	
UUUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	

Va 000 000 7F1 7F1 7F1 7F1 7F1 7F1 7F1

SA



Page

SATSSF17 Table of contents	- SATS SYSTEM SERVICE TESTS	(FAILING S. 16-SEP-1984 01:41:08	VAX/VMS Macro V04-00
(1) 53 (1) 75 (1) 113 (1) 207 (2) 262 (2) 356 (3) 451 (3) 573 (3) 697 (3) 718 (3) 761 (3) 761 (3) 797 (3) 810	DECLARATIONS OWN STORAGE R/W PSECT SATSSF17 INPUT TESTS OUTPUT TESTS QIO TESTS QIOW TESTS REG_SAVE REG_CHECK PRINT_FAIL MOD_MSG_PRINT CHMRTN		

Page (1)

.TITLE SATSSF17 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)

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FACILITY: SATS SYSTEM SERVICE TESTS

ABSTRACT: The SATSSF17 module tests the execution of the following VMS system services, invoked in such a way as to expect failing status codes:

\$INPUT \$OUTPUT \$QIO \$QIOW

ENVIRONMENT: User mode image; needs CMKRNL privilege, dynamically acquires other privileges, as needed.

AUTHOR: Larry D. Jones,

CREATION DATE: OCTOBER, 1979

MODIFIED BY:

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44444444901

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V03-001 LDJ0001 Larry D. Jones, 17-Sep-1980 Modified to conform to new build command procedures.

```
S3 .SBTTL DECLA

54 : MACRO LIBRA

55 : MACRO LIBRA

56 : SPRVD

58 SUETP

59 SSHR

60 SPHDD

51 SPCBD

52 SSSDE

53 SSTSD

64 : Equated sym

65 : Equated sym

66 SUCCESS

69 ERROR

70 INFO

71 SEVERE

72 PRVHND_SXV40

73
                                                   .SBTTL DECLARATIONS
                                                       MACRO LIBRARY CALLS
                                                                      $PRVDEF
$UETPDEF
$UETP message definitions
$SHR_MESSAGES UETP.116,<<TEXT,INFD>> ; UETP$_TEXT_definition
$PHDDEF
$PCBDEF
$PCBDEF
$PCB definitions
$SSDEF
$SSTSDEF
$SSTSDEF
$SSTSDEF
$SSTSDEF
$SSTSDEF
                                                   : Equated symbols
                        0000
0000
0000
0000
0000
0000
00000000
00000001
00000002
00000003
                                                                                                                                                    ; warning severity value for msgs
                                                                                          = 1
                                                                                                                                                     ; success
                                                                                                                                                        error information :
                                                                                          = 2
                                                                                                                                                                                                        ..
                                                                                                                                                                                                        ..
 00000004
                                                                                          = 4
                                                                                                                                                     ; fatal
00000001
                                                                                                                                                     ; page 0 address for SETEXV
```

.ASCID \status\

.ASCID \TT\

107 EXP:

108 109 110

73 75 74 61 74 73 000000ED 010E0000

54 54 000000FB 010E0000

(1)

.BLKB

. LONG

.LONG

. WORD

ADDRESS

BUF

; message desc.

; service name pointer

: channel location

MESSAGEL:

SERV_NAME:

MBCHAN:

00000183

00000000

00000000

0000

DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS! THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE CHOSEN TO FORCE THE DESIRED PSECT ORDERING.

(1)

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 F/W PSECT 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
                                                               SATSSF17, RD, WRT, EXE, LONG
SATSSF17
  00000000
                                    FUNCTIONAL DESCRIPTION:
                                   After performing some initial housekeeping, such as printing the module begin message and acquiring needed privileges, the system services are tested in each of their failure conditions. Detected failures are identified and an error message is printed on the terminal. Upon completion of the test a success or fail message is printed on the terminal.
                                    CALLING SEQUENCE:
                                                $ RUN SATSSF17 ... (DCL COMMAND)
                                    INPUT PARAMETERS:
                                                none
                                    IMPLICIT INPUTS:
                                                none
                                    OUTPUT PARAMETERS:
                                                none
                                    IMPLICIT OUTPUTS:
                                                Messages to SYS$OUTPUT are the only output from SATSSF17. They are of the form:
                                                                XUETP-S-SATSMS, TEST MODULE SATSSF17 BEGUN ... (BEGIN MSG)
XUETP-S-SATSMS, TEST MODULE SATSSF17 SUCCESSFUL ... (END MSG)
XUETP-E-SATSMS, TEST MODULE SATSSF17 FAILED ... (END MSG)
XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
                                    COMPLETION CODES:
                                                The SATSSF17 routine terminates with a $EXIT to the operating system with a status code defined by UETP$_SATSMS.
                        2489
2490
2553
2553
2557
2557
                                    SIDE EFFECTS:
                                                none
                                                TEST_START SATSSF17
                                                                                                          ; let the test begin
```

(1)

test unaccessable IOSB parameter = page 0 access

300 :+ 301 : 302 :

			- SA INPU	TS SYST		ERVICE	TESTS (F	AILING S	. 16-SEP-1984 01:41: 5-SEP-1984 04:22:	08 VAX/VMS Macro V04-00 23 CUETP.SRCJSATSSF17.MAR;1	Page 9 (2)
				0116 0116	303 304 305	-	NEXT_TE	ST			
	004°CF	03 00 01	DO DD FB	0116 0116 0116 0118		STP3:		MOVL PUSHL	#3,W^CURRENT_TC		
0	953'CF	01	18	0122 0122 0122	306 307 308 309 310		SINPUT	CALLS CHAN = IOSB = LENGTH=	W^PRVHND_SXV40,-		
0	95D'CF	0C	DD FB	0143 0143 0145			FAIL_CH	BUFFER= PUSHL CALLS	W^MBNAM ACCVIO #SS\$_ACCVIO #1,W*REG_CHECK	: try page 0 access : check failure	
				014A 014A 014A 014A 014A	311 312 313 314 315 316	test	unaccess NEXT_TE		B parameter = read-o	nly PSECT	
0	004°CF	04	DO	014A 014A 014A		STP4:		MOVL	#4.W^CURRENT TC		
	953'CF	04 00 01	DO DD FB	014F 0151 0156 0156	317 318 319 320 321		SINPUT	PUSHL CALLS CHAN = IOSB = LENGTH=	#4, W^CURRENT_TC #0 #1, W^REG_SAVE W^MBCHAN, - W^PRVHND_SXV41, -		
0	95D°CF	0C 01	DD FB	0156 0177 0177 0179			FAIL_CH	BUFFER= ECK SS\$_ PUSHL CALLS	W^MBNAM ACCVIO #SS\$_ACCVIO #1,W^REG_CHECK	<pre>; try read-only PSECT ; check failure</pre>	
				017E 017E 017E 017E 017E	322 323 324 325 326 327	test	unaccess NEXT_TE		3 parameter = noacce	ss protection	
0	004°CF	05	DO	017E 017E 017E		STP5:		MOVL	#5,W^CURRENT_TC		
0	953'CF	05 00 01	DO DD FB	0183 0185 018A 018A	328 329 330 331 332		\$INPUT	PUSHL	#1, W^REG_SAVE W^MBCHAN, - W^PRVHND_SXV42, -		
0	95D°CF	0C 01	DD FB	018A 01AB 01AB 01AD 01B2		• •	FAIL_CH	RIIFFFR=	W^MBNAM ACCVIO WSS\$_ACCVIO W1,W*REG_CHECK	: try noaccess BUFFER param ; check failure	•
				01B2 01B2 01B2 01B2 01B2	333 334 335 336 337 338		non-exis	tent char	nnel number		
				0182	338	;-	NEXT_TE	ST			

SATSSF17 V04-000

number

0004°CF 06 0953°CF 01	6 DO 0 DD 1 FB	01B2 01B2 01B2 01B7 01B9 01BE 339 01CA 340	MOVL #6, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE \$DASSGN_S CHAN = W^MBCHAN \$INPUT CHAN = W^MBCHAN,-	; deassign the channel
095D'CF 01	4 DD 1 FB	01BE 339 01CA 340 01CA 341 01CA 342 01E9 343 01E9 01EB 01F0 344 :+	BUFFER= W^MBNAM, - LENGTH= #0 FAIL_CHECK SS\$_NOPRIV PUSHL #SS\$_NOPRIV CALLS #1, W*REG_CHECK	; try fllegal channel; check the failure
		01F0 346: 01F0 347: 01F0 348:- 01F0 349	st illegal channel number NEXT_TEST	
0004°CF 07 0953°CF 01 018F°CF	7 DO DD DD FB D4	01F0 01F0 01F5 01F7 01FC 350 0200 351 0200 353 021F 354	#7, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE CLRL W^MBCHAN \$INPUT CHAN = W^MBCHAN, - BUFFER= W^MBNAM	; make an illegal channel r
0000013C 8F 095D'CF 01		0200 353 021F 354 021F 0225	LENGTH= #0 FAIL_CHECK SS\$_IVCHAN PUSHL #SS\$_IVCHAN CALLS #1,W*REG_CHECK	; try illegal channel numbe ; check failure

11 (2)

		- SATS OUTPUT	SYSTEM SERVICE TESTS	TESTS (FAILING S. 16-SEP-1984 01:41:08 5-SEP-1984 04:22:23	VAX/VMS Macro V04-00 [UETP.SRC]SATSSF17.MAR;1	Page 12
00000234 095D*CF	8F 01	DD 02 FB 02	F1 394	FAIL_CHECK SSS_UNASEFC PUSHL #SS\$_UNASEFC CALLS #1, W*REG_CHECK	; check failure	
		02	FC 395 FC 396 FC 397 tes FC 398 FC 399 -	unaccessable IOSB parameter = page 0 ac	cess	
		02	ZF C	NEXT_TEST		
0004 ° CF	0B	00 02	FC STP11	MOVL #11,W^CURRENT_TC		
0953°CF	0B 00 01	DO 02 DD 03 FB 03 03	501 508 508 508 508 508 508 508 508 508 508	PUSHL #0 CALLS #1, WAREG SAVE SOUTPUT CHAN = WAMBCHAN, - 10SB = WAPRVHND_SXV40, -		
095D*CF	0C 01	03 03 03 FB 03	2B	BUFFER = W^MBNAM FAIL_CHECK SS\$_ACCVIO PUSHL #\$S\$_ACCVIO CALLS #1,W*REG_CHECK	; try page 0 access ; check failure	
		03	32 406 :+			
		03	32 408 tes	unaccessable IOSB parameter = read-only	PSECT	
		03	32 406 + 132 408 test 32 409 = 132 410 - 132 411	NEXT_TEST		
		03	32 STP12			
0004°CF	0C 00 01	00 03	32	MOVL #12,W^CURRENT_TC		
0953'CF	01	DO 03 DD 03 FB 03 03	36 3E 412 3E 413 3E 414 3E 415	PUSHL #0 CALLS #1, WAREG SAVE SOUTPUT CHAN = WAMBCHAN, - IOSB = WAPRVHND_SXV41, - LENGTH = #0, -		
095D*CF	0C 01	03 03 03 6B 03	63	BUFFER = W^MBNAM FAIL_CHECK SS\$_ACCVIO PUSHL #SS\$_ACCVIO CALLS #1,W*REG_CHECK	: try read-only PSECT : check failure	
		03	68 420 :	unaccessable IOSB parameter = noaccess	protection	
		03	68 421 ;- 68 422	NEXT_TEST		
		03	68 68 STP13			
0004°CF	0D 00 01	DO 03 DD 03 FB 03	68 60	MOVL #13,W^CURRENT_TC PUSHL #0		
0953°CF	01	FB 03 03 03	6F 74 423 74 424 74 425 74 426 97 427	SOUTPUT CHAN = W^MBCHAN,- IOSB = W^PRVHND_SXV42,- LENGTH = #0,-		
		03	74 426 197 427	RUFFER = W^MRNAM	<pre>; try noaccess BUFFER para ; check failure</pre>	am.
0950 ° CF	0C 01	DD 03	197 199	FAIL_CHECK SS\$_ACCVIO PUSHL #SS\$_ACCVIO CALLS #1, W*REG_CHECK		

SATSSF17 V04-000

PS

SA

SAI ROI RUI SA SA

Ph In Co Pa

> Cr As Th

Sy Pa Sy Ps

SA VA Th 82 52

> Ma -s -s TO

164 The

MA

SATSSF17 V04-000				- SA	TS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 P. TESTS 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1	age 15 (3)
		0953'CF	01	fB	04DF 04E4 491 \$QIO_S CHAN=W^MBCHAN, - 04E4 492 FUNC=#IO\$ READVBLK, - 04E4 493 P1=W^MBNAM, - 04E4 494 P2=#0, - 04E4 495 EFN=#123 ; try S 0507 496 FAIL_CHECK SS\$_UNASEFC ; check failure	
		00000234 095D*CF	8F 01	DD FB DO	DSD/ DUCHI PCC HMACEEL	
	COB1 'CF	0000007B	8F		CALLS #1.W*REG_CHECK 0512 497 MOVL #123.W*QIOP+QIOS_EFN ; set illegal EFN 051B 498 \$QIO_G W*QIOP ; try G 0524 499 FAIL_CHECK SS\$_UNASEFC ; check failure 0524 PUSHL #SS\$_UNASEFC	
		00000234 095D CF 00B1	8F 01 *CF	DD FB D4	052A CALLS #1,W*REG_CHECK	
					052F 500 CLRL W^QIOP+QIO\$_EFN ; clean up filegal EFN 0533 501 :+ 0533 502 : 0533 503 test unaccessable IOSB = page 0 access 0533 504 : 0533 505 :- 0533 506 NEXT_TEST	
		0004°CF 0953°CF	12 00 01	DO DD FB	0533 0533 0533 MOVL #18,W^CURRENT_TC 0538 PUSHL #0 053A CALLS #1,U^REG_SAVE 053F 507 \$010 S CHAN=W^MBCHAN =	
	0080	095D'CF 'CF 0001	0C 01 'CF	DD FB DE	Signature	
		095D*CF	0C 01	DD F8	0577 515 FAIL_CHECK SS\$_ACCVIO ; check the failure 0577 PUSHL #SS\$_ACCVIO 0579 CALLS #1.W*REG CHECK	
					057E 516 :+ 057E 517 : 057E 518	
		0004°CF 0953°CF	13 00 01	DO DD FB	057E 057E 057E 057E 0583 0585 0584 058A 058A 058A 058A 058A 058A 058A 058A	
			00	DD	058A 525 058A 526 10SB=W^PRVHND_SXV41 ; try S 05AB 527 FAIL_CHECK_SS\$_ACCVIO ; check_failure 05AB PUSHL #SS\$_ACCVIO	

		- SA	TS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 TESTS 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
00BD 'CF 0053'	O1 CF	FB	CALLS #1, W^REG_CHECK 05B2 528 MOVAL W^PRVHND_SXV41, W~QIOP+QIO\$ IOSB; set IOSB adr 05B9 529 \$QIO_G W^QIOP 05C2 530 FAIL_CHECK SS\$_ACCVIO ; check failure
095D'CF	0C 01	DD FB	05C4 CALLS #1.W*REG CHECK
			05C9 532 : test noaccess protection in IOSB
0004°CF 0953°CF	14 00 01	DO DD FB	05C9 STP20: 05C9
	0C 01	DD FB	05D5 538 FUNC=#IO\$ READVBLK,- 05D5 539 P1=W^MBNAM,- 05D5 540 P2=#0,- 05D5 541 IOSB=W^PRVHND_SXV42 : try S 05E6 542 FAIL CHECK SS\$ ACCVID— check failure
095D°CF	01	FB	05F6 05F8 05FD 543 + 05FD 544 : 05FD 545 : test non-existent channel number 05FD 546 : 05FD 547 :- 05FD 548 NEXT_TEST
			05FD
0004°CF	15 00 01	DO DD FB	05FD STP21: 05FD
			0615 551 FUNC=#IO\$ READVBLK,- 0615 552 P1=W^MBNAM,- ; try _S 0615 553 P2=#0
095D°CF	24 01	DD FB	0634 554 FAIL_CHECK SS\$_NOPRIV ; check failure 0634 PUSHL #SS\$_NOPRIV 0636 CALLS #1,W*REG_CHECK
095D*CF	24 01	DD FB	0638 555 \$QIO_G W^QIOP : try G 0644 556 FAIL_CHECK SS\$_NOPRIV : check failure 0644 PUSHL #SS\$_NOPRIV 0646 CALLS #1,W*REG_CHECK
			0636 0636 0638 0638 0644 0644 0644 0646 0648 0648 0648 064
0004°CF	16	DO	064B 064B STP22: 064B MOVL #22,W^CURRENT_TC

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	- SA	TS SYS'	TEM SERVICE	TESTS (F	F 1 AILING S. 16-SEP-1984 5-SEP-1984	01:41:08 04:22:23	VAX/VMS Macro V04-00 [UETP.SRC]SATSSF17.MAR;1
00 0953°CF 01 018F°CF	DD FB D4	0650 0652 0657 0658 0658 0658 0658	563 564 565 566 567 568	CLRL \$QIO_S	PUSHL #0 CALLS #1, W^REG_SAVE W^MBCHAN CHAN=W^MBCHAN, - FUNC=#10\$ READVBLK, - P1=W^MBNAM, -	; set	illegal channel number
0000013C 8F 095D'CF 01 00B5'CF	DD FB D4	067A 067A 0680 0685 0689	568 569 570 571		P2=#0 ECK SS\$_IVCHAN PUSHL #SS\$_IVCHAN CALLS #1, W*REG_CHEC	K ; set	k failure illegal channel number
0000013C 8F 095D'CF 01	DD FB	0692 0692 0698	571	FAIL_CH	W^QIOP+QIO\$_CHAN W^QIOP ECK SS\$_IVCHAN PUSHL #SS\$_IVCHAN CALLS #1,W*REG_CHEC	; chec	K failure

SATSSF17 V04-000

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- SATS SYSTEM SERVICE TESTS QIOW TESTS	(FAILING S.	16-SEP-1984 5-SEP-1984	01:41:08 04:22:23	VAX/VMS Macro V04-00 [UETP.SRC]SATSSF17.MAR;1

				0767 0767	12	;-	NEXT_TEST
	0004°CF	19 00 01	DO DD FB	0767 0767 0767 0760 076E 0773 0773	14 15 16 17 18	STP25:	MOVL #25, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE SQIOW_S CHAN=W^MBCHAN, - FUNC=#10\$ READVBLK, - P1=W^MBNAM, - P2=#0, -
00E5'CF	00000234 095D ' CF 0000007B	01	DD FB DO	0796 0790			FAIL_CHECK SS\$_UNASEFC
	00000234 095D 'CF 00E5	01	DD FB D4	07B3 07B9	20 21 22 23		MOVL #123, W^QIOWP+QIOWS_EFN ; set illegal EFN \$QIOW G W^QIOWP ; try G FAIL_CHECK \$S\$_UNASEFC ; check failure PUSHL #SS\$_UNASEFC CALLS #1.W*REG CHECK CLRL W^QIOWP+QIOW\$_EFN ; clean up illegal EFN
				07C2 07C2 07C2 07C2 07C2	23 24 25 26 27 28 29	test	unaccessable IOSB = page 0 access NEXT_TEST
	0004°CF 0953°CF	1A 00 01	DO DD FB	07C2 07C2 07C2 07C7 07C9	30 31 32 33 34 35	STP26:	MOVL #26, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE SQIOW_S CHAN=W^MBCHAN,- FUNC=#IO\$_READVBLK,-
00F1	095D°CF 'C! 0001		DD FB DE	07EF 07F1 07F6 6 07FD 6	36 37 38		P1=W^MBNAM,- P2=#0,- IOSB=W^PRVHND_SXV40 ; try S FAIL_CHECK SS\$_ACCVIO ; check failure PUSHL #SS\$_ACCVIO CALLS #1,W*REG_CHECK MOVAL W^PRVHND_SXV40,W*QIOWP+QIOW\$_IOSB ; set illegal address \$QIOW_G W^QIOWP ; try G FAIL_CHECK SS\$_ACCVIO ; check the failure PUSHL #SS\$_ACCVIO ; check the failure CALLS #1,W*REG_CHECK
	095D*CF	0C 01	DD FB	0806			PUSHL #SS\$_ACCVIO CALLS #1,W*REG_CHECK unaccessable IOSB = read-only PSECT NEXT_TEST
	0004°CF 0953°CF	1B 00 01	DO DD FB	080D 080D 080D 0812 0814 0819	45	STP27:	MOVL #27, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE \$QIOW_S CHAN=W^MBCHAN,-

S/

46

56

7

41

52

VC

54

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 REG_SAVE 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
SATSSF17
V04-000
                                                            .SBTTL REG_SAVE
                                                              FUNCTIONAL DESCRIPTION:
                                                       Subroutine to save R2-R11 in the register save location.
                                                              CALLING SEQUENCE:
                                                                      PUSHL #0
                                                                                                    ; save a dummy parameter
                                                                      CALLS #1, WAREG_SAVE
                                                                                                    : save R2-R11
                                                              INPUT PARAMETERS:
                                                                      NONE
                                                              OUTPUT PARAMETERS:
                                                                      NONE
                                                            REG_SAVE:
                                                                               ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
#4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
                                                                      . WORD
            0008 °CF
                         14 AD
                                   28
                                                                      MOVC3
                                                                      RET
                                                       .SBTTL REG_CHECK
                                                              FUNCTIONAL DESCRIPTION:
                                                                      Subroutine to test RO & R2-R11 for proper content after a service execution. A snapshot is taken by the REG_SAVE routine at the beginning of each step and this routine is executed after the
                                                                      services have been executed.
                                                              CALLING SEQUENCE:
                                                                      PUSHL
                                                                              #SS$_XXXXXX
                                                                                                    ; push expected RO contents
                                                                               #1, W*REG_CHECK ; execute this routine
                                                                      CALLS
                                                              INPUT PARAMETERS:
                                                                      expected RO contents on the stack
                                                              OUTPUT PARAMETERS:
                                                                     possible error messages printed using $PUTMSG
                                                            REG_CHECK:
                                                                      WORD
                                                                               ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                                                      CMPL
                                                                                4(AP), RO
                                                                                                                          is this the right fail code?
                                         13
00
00
0F
F8
                                                                      BEQL
                                                                                108
                                                                                                                          br if yes
                                                                      PUSHL
                                                                                                                          push received data
                                                                                                                          push expected data
                                                                      PUSHL
                                                                                4(AP)
                                                                      PUSHAL
                                                                                W^EXP
                                                                                                                          push the string variable
                      0945 CF
                                                                                #3, WAPRINT_FAIL
                                                                      CALLS
                                                                                                                          print the error message
                                                            105:
                                         29
13
13
13
14
14
            0008°CF
                                                                      CMPC3
                                                                                #4+10, "X14(FP), W"REG_SAVE_AREA
                                                                                                                          check all but RO br if O.K.
                         14 AD
                                              097A
097C
0984
0987
                                                                      BEQL
                53
                       80000008
                                                                      SUBL 3
                                                                                #REG_SAVE_AREA,R3,R6
                                                                                                                        ; calculate the register number
                                   042003
                            56
56
51
53
                                                                      DIVLZ
                                                                                #4,R6
                                                                                # X2 R6, W REGNUM
#3, R1
#3, R3
                0127'CF
                                                                      ADDB3
                                                                                                                          put it in the string
                                                                                                                        : backup to register boundry
                                                                      BICL
                                                                      BICLZ
```

CMPB

BRB

105:

205:

BEQL SFAO_S

SFAO_S

PUTMSG

MOVAL

INSV

RET

91

11

DE F0 04

0A03

0A03 0A28 0A28 0A3D 0A44

OA4B

25

002A'CF

04

004C 'CF

0044 °CF

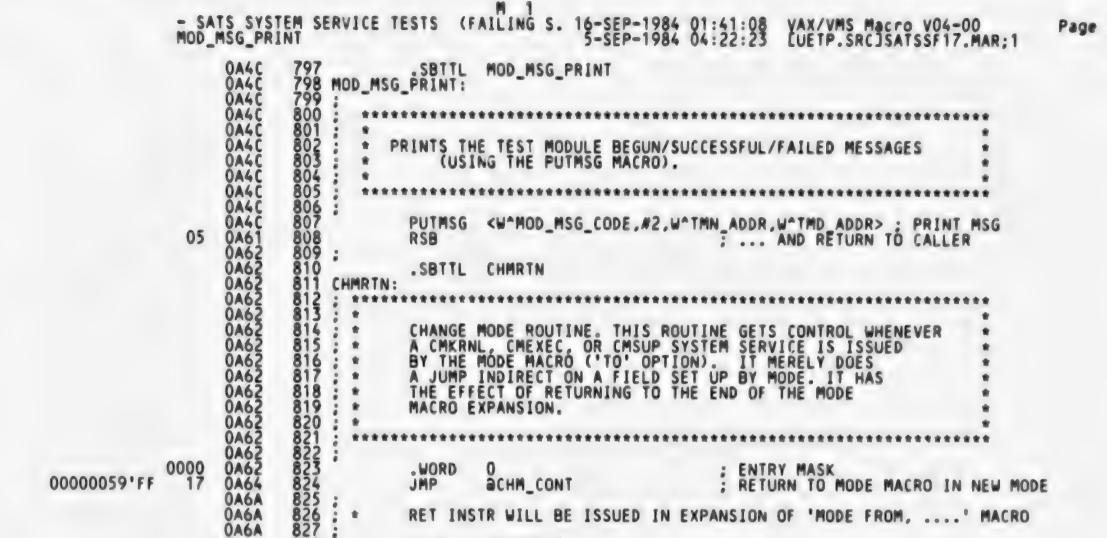
(AP),#4"
is this a register message?
108
U^CS2,U^MESSAGEL,U^MSGL,4(AP),8(AP),4(AP),12(AP)

W^CS3, W^MESSAGEL, W^MSGL, 4(AP), 16(AP), 8(AP), 4(AP), 16(AP), 12(AP)

<#UETP\$ TEXT.W1.WMESSAGEL>
W^TEST_MOD_FAIL.W^TMD_ADDR
WERROR.W0.W3,W^MOD_MSG_CODE

; goto output message

; print the message
; set failure message address
; set severity code



SATSSF17

.END

SI

24 (3)

SATSSF17 Symbol table	- SATS SYSTEM SERVICE	5-	SEP-1984 01:41:08 VAX/VMS Macro V04-00 EP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;	Page 25
SSARGS SST1 SST2 BUF CHMRTN CHM_CONT CS1 CS2 CS3	= 0000000C = 00000004 = 00000009 00000133 R 03 00000062 R 03 00000053 R 02 00000085 R 02 00000082 R 02 00000004 R 03 00000000 R 04	QIOWS FUNC QIOWS 10SB QIOWS NARGS QIOWS P2 QIOWS P3 QIOWS P4 QIOWS P5 QIOWS P6 QIOWS P6	= 0000000C = 00000010 = 0000001C = 00000020 = 00000024 = 00000028 = 0000002C	
URRENT_TC MPTY RROR XP NADR NFO NP NPUT	= 00000009 00000133 R 03 00000059 R 03 00000059 R 02 00000085 R 02 00000082 R 02 00000000 R 04 = 00000000 R 04 = 00000005 R 02 00000065 R 02 00000065 R 03 00000065 R 03 = 00000031 R 02	REGNUM REG_CHECK REG_SAVE REG_SAVE_AREA RETADR SATSSF17	000000E1 R 03 00000115 R 03 00000127 R 03 0000095D R 06 00000953 R 06 00000008 R 03 0000005D R 03 00000000 RG 06 0000018B R 03	
IOS_READVBLK IOS_WRITEVBLK _IB\$SIGNAL 1BCHAN 1BNAM 1ESSAGEL 1OD_MSG_CODE 1OD_MSG_PRINT	= 00000030 ******* X 06 0000018F R 03 000000F3 R 02 00000183 R 03 00000044 R 03 00000044 R 03 00000012B R 03	SERV NAME SEVERE SHR\$K_SHRDEF SHR\$_TEXT SS\$_ACCVIO SS\$_ILLEFC SS\$_IVCHAN SS\$_NOPRIV SS\$_UNASEFC	= 00000018B R = 00000001 = 00001130 = 0000000C = 000000EC = 0000013C = 00000024 = 00000234	
OACCESS UT UTPUT RINT FAIL RIVMĀSK ROT	0000018F R 03 000000F3 R 02 00000183 R 03 00000044 R 03 00000012B R 03 00000000 R 05 00000000 R 05 00000000 R 05 00000001 R 03 0000004F R 02 ******* X 02	SS\$ UNASEFC STEP STPO STP1 STP10 STP11 STP12 STP13 STP14	= 0000001E 0000003D R 06 000000A2 R 06 000002C0 R 06 000002FC R 06 00000332 R 06 00000338 R 06 0000039E R 06 000003DE R 06	
RTSC NA RVHND SXV40 RVHND SXV41 RVHND SXV42 RVPRT IO IOS ASTADR IOS ASTPRM IOS CHAN IOS FUNC IOS NARGS	= 00000053 R 02 = 000001FF R 04 00000050 R 03 00000016 = 00000018 = 00000008 = 00000006 = 00000000 = 000000000 = 00000000000	STP15 STP16 STP17 STP18 STP19 STP20 STP21 STP22 STP23 STP24 STP25 STP25		
IOS P1 IOS P2 IOS P3 IOS P4 IOS P5 IOS P6 IOP IOW IOWS ASTADR IOWS ASTPRM IOWS CHAN IOWS EFN	= 0000001¢ = 00000024 = 00000028 = 00000030 000000AD R 03 00000042 R 02 = 00000018 = 00000018 = 00000008 = 00000004	STP25 STP26 STP27 STP28 STP29 STP3 STP30 STP4 STP5 STP6 STP7 STP8	00000481 R 06 00000408 R 06 0000057E R 06 0000057E R 06 000005C9 R 06 000005FD R 06 0000064B R 06 0000069D R 06 00000710 R 06 00000767 R 06 00000767 R 06 00000858 R 06	

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
SATSSF17
                                                                                                                                                                                         Page
Symbol table
                                                  00000284 R
                                                                         06
STSSV_INHIB_MSG
SUCCESS
SYSSCREMBX
SYSSDASSGN
SYSSEXIT
SYSSFAO
                                               = 00000001
                                                  ******
                                                                        0666666366662222223333
                                                  ******
                                                  ******
                                                  ******
SYS$HIBER
                                                  *******
SYSSQIO
                                                  ****
SYS$QIOW
                                                  ******
SYS$SETPRN
                                                  ******
SYS$SETPRT
                                                  *****
SYS$WAKE
                                                  ******
                                                                 GX
TEST_MOD_BEGIN
TEST_MOD_FAIL
TEST_MOD_NAME
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
TMN_ADDR
                                                  00000019 R
                                                  0000002A
00000000
00000009
                                                  0000001F R
0000004C R
00000048 R
TPID
                                                  00000000
UETPS_SATSMS
UETPS_TEXT
WARNING
                                               = 007480D9
= 00741133
                                               = 00000000
                                                                         ! Psect synopsis
                                                                         4-----
PSECT name
                                                 Allocation
                                                                               PSECT No.
                                                                                               Attributes
-------
                                                                                                                                      LCL NOSHR NOEXE
    ABS
                                                 00000000
                                                                                               NOPIC
                                                                                                                                                                                NOVEC BYTE
                                                                                                                    CON
                                                                                                                             ABS
                                                                                                                                                              NORD
                                                                                                                                                                       NOWRT
                                                00000000
0000000FD
00000191
00000200
00000200
$ABS$
                                                                                               NOPIC
NOPIC
                                                                       0.)
                                                                               01
                                                                                                                    CON
                                                                                                                             ABS
                                                                                                           USR
                                                                                                                                                                          WRT
                                                                                                                             REL
REL
REL
REL
                                                                              02
RODATA
                                                                                                                    CON
                                                                                                                                                     NOEXE
                                                                                                           USR
                                                                                                                                      LCL
                                                                                                                                           NOSHR
                                                                                                                                                                 RD
                                                                                                                                                                       NOWRT
                                                                                                                                                                                NOVEC
                                                                                                                                                                                         LONG
                                                                    401.)
512.)
512.)
RWDATA
                                                                                                                    CON
                                                                                               NOPIC
                                                                                                           USR
                                                                                                                                                     NOEXE
                                                                                                                                            NOSHR
                                                                                                                                                                 RD
                                                                                                                                                                          WRT
                                                                                                                                      LCL
                                                                                                                                                                                NOVEC
                                                                                                                                                                                         LONG
SATS_ACCVIO_1
SATS_ACCVIO_2
SATSSF17
                                                                                               NOPIC
NOPIC
                                                                              04
                                                                                                                                                                                NOVEC
NOVEC
NOVEC
                                                                                                           USR
                                                                                                                    CON
                                                                                                                                                     NOEXE
                                                                                                                                                                 RD
                                                                                                                                      LCL
                                                                                                                                           NOSHR
                                                                                                                                                                          WRT
                                                                                                                                                                                         PAGE
                                                                                                                                           NOSHR NOEXE
NOSHR EXE
                                                                                                           USR
                                                                                                                    CON
                                                                                                                                      LCL
                                                                                                                                                                 RD
                                                                                                                                                                          WRT
                                                                                                                                                                                         PAGE
                                                 00000A6A
                                                                               06
                                                                                               NOPIC
                                                                  2666.)
                                                                                                           USR
                                                                                                                    CON
                                                                                                                                                                          WRT
                                                                                                                                                                                         LONG
                                                                     ! Performance indicators
                                                                     4-----
Phase
                                                             CPU Time
                                                                                   Elapsed Time
                                      Page faults
                                                                                   00:00:00.54
00:00:03.69
00:00:40.48
00:00:03.54
00:00:09.53
00:00:00.17
00:00:00.04
00:00:00.04
                                                            00:00:00.08
00:00:00.70
00:00:20.48
00:00:02.16
00:00:04.58
00:00:00.15
00:00:00.04
00:00:00.04
Initialization
                                                138
 Command processing
Pass 1
Symbol table sort
Pass 2
                                                188
Symbol table output
Psect synopsis output
Cross-reference output
Assembler run totals
```

SA

VO

The working set limit was 1950 pages.
126282 bytes (247 pages) of virtual memory were used to buffer the intermediate code.

SATSSF17
VAX-11 Macro Run Statistics

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 Page 27 (3)

There were 80 pages of symbol table space allocated to hold 1387 non-local and 4 local symbols. 828 source lines were read in Pass 1, producing 34 object records in Pass 2. 52 pages of virtual memory were used to define 48 macros.

! Macro library statistics !

Macro library name

\$255\$DUA28:[UETP.OBJ]UETP.MLB;1

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIBJSTARLET.MLB;2

TOTALS (all libraries)

Macros defined

10

2

33

45

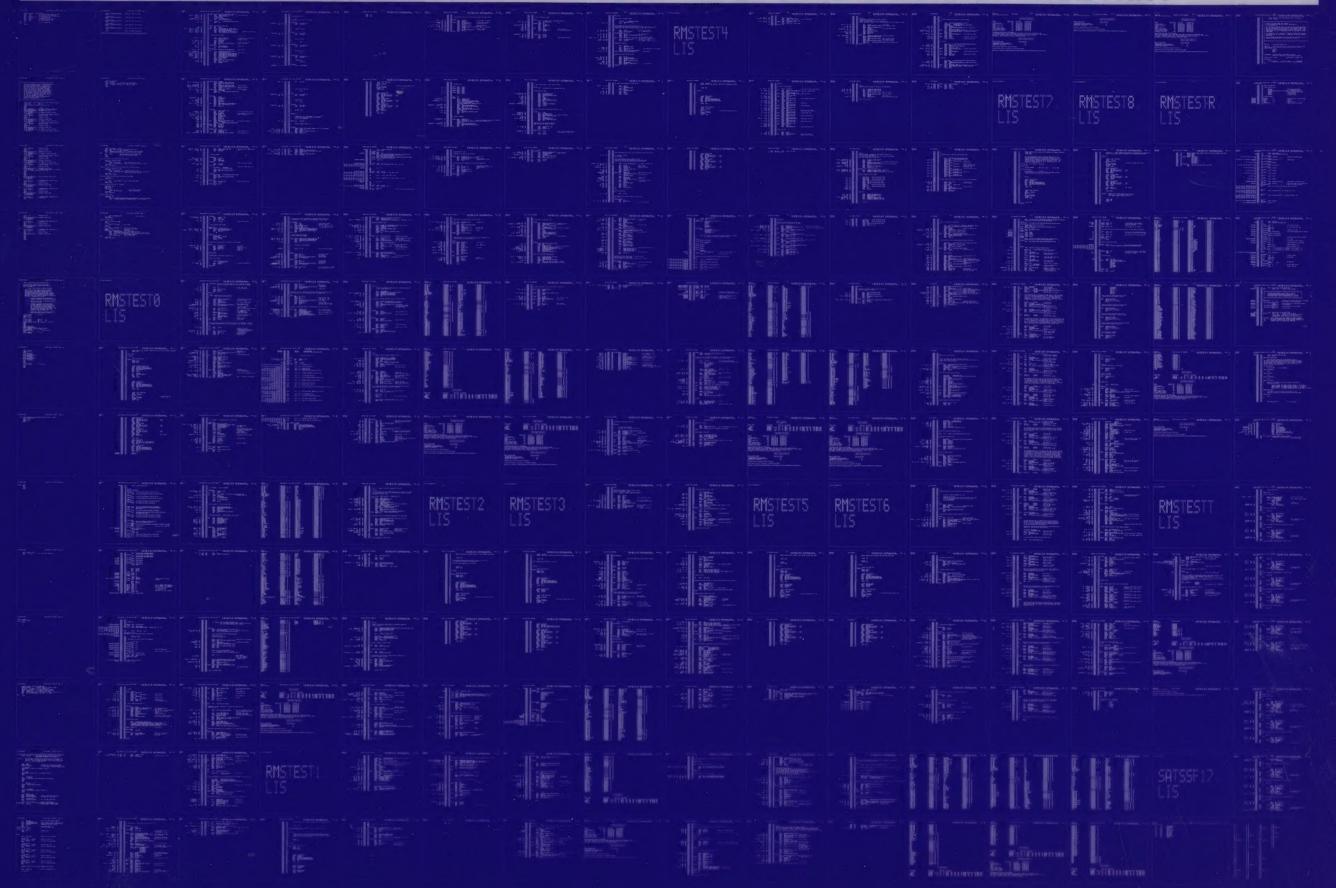
1663 GETS were required to define 45 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF17/OBJ=OBJ\$:SATSSF17 MSRC\$:SATSSF17/UPDATE=(ENH\$:SATSSF17)+EXECML\$/LIB+LIB\$:UETP/LIB

0409 AH-BT13A-SE

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0410 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

